

**IN THE CLAIMS**

For the convenience of the Examiner, all pending claims of the present Application are presented below whether or not an amendment has been made. Please amend the claims as follows:

1. **(Currently Amended)** A method of automatically deploying program units to a cluster of networked servers, comprising:

assembling one or more program units for deploying to a cluster of **networked one or more application** servers;

retrieving **type** information related to the cluster of networked servers from a deployment server, **the type information identifying a type of application server installed on one or more nodes to which to deploy the program units;**

automatically, and without user input, generating **a script to use a specific utility of the application server for generation of** deployment descriptors from the **type** information retrieved from the deployment server, **the deployment descriptors suitable for the type of application server;** and

deploying the one or more program units to the cluster **of the one or more application servers** using at least the deployment descriptor.

2. **(Previously Presented)** The method of claim 1, further comprising creating naming and directory interface binding files.

3. **(Currently Amended)** The method of claim 1, wherein the retrieving comprises automatically retrieving information related to **the** one or more application servers in the cluster.

4. **(Original)** The method of claim 3, further comprising:  
dynamically allowing a user to select from the one or more application servers.

5. **(Currently Amended)** ~~A method of automatically deploying program units to a cluster of networked servers, comprising: The method of claim 1,~~  
~~assembling one or more program units for deploying to a cluster of networked servers;~~

~~retrieving information related to the cluster of networked servers;~~  
~~generating deployment descriptors from the information; and~~  
~~deploying the one or more program units to the cluster using at least the deployment descriptor; and~~

wherein the retrieving comprises:

automatically retrieving information related to one or more virtual hosts in the cluster.

6. **(Previously Presented)** The method of claim 5, further comprising:  
dynamically allowing a user to select from the one or more virtual hosts.

7. **(Cancelled)**

8. **(Original)** The method of claim 1, wherein the assembling further comprises providing a user interface to gather information from a user about the one or more program units being deployed.

9. **(Original)** The method of claim 1, wherein the cluster of networked servers includes at least an application server and one or more clones of the application server.

10. **(Original)** The method of claim 1, further including allowing re-deploying of already deployed one or more program units to the cluster.

11. **(Currently Amended)** A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps of automatically deploying program units to a cluster of networked servers, comprising:

assembling one or more program units for deploying to a cluster of networked servers;

retrieving **type** information related to the cluster of networked servers from a deployment server, **the type information identifying a type of application server installed on one or more nodes to which to deploy the program units;**

automatically, and without user input, generating **a script to use a specific utility of the application server for generation of** deployment descriptors from the **type** information retrieved from the deployment server, **the deployment descriptors suitable for the type of application server;** and

deploying the one or more program units to the cluster using at least the deployment descriptor.

12. **(Previously Presented)** The program storage of claim 11, further comprising:

creating naming and directory interface biding files.

13. **(Currently Amended)** A system automatically deploying program units to a cluster of networked servers, comprising:

**an application server cluster comprising a set of a plurality of application servers; and**

**a network deployment server in communication with the application server cluster, the at least one network deployment server comprising:**

\_\_\_\_\_data source management module operable to retrieve data source information from an application server to which to deploy one or more program units;

\_\_\_\_\_cluster management module operable to retrieve cluster information related to the application server; and

\_\_\_\_\_container management module operable to:

\_\_\_\_\_retrieve container information related to the application server, **the container information identifying a type of application server installed on one or more nodes;** and

\_\_\_\_\_automatically, and without user input, generate **a script to use a specific utility of the application server for generation of** deployment descriptors from the information retrieved container information, **the deployment descriptors suitable for the type of application server;**

wherein the data source information, cluster information, container information, and deployment descriptors are used to automatically deploy the one or more program units to ~~a cluster of networked servers~~ **the plurality of application servers.**

14. **(Original)** The system of claim 13, further including:

a user interface module to retrieve information from a user related to one or more user preferences for deploying the one or more program units.

15. **(Original)** The system of claim 14, wherein the user interface module is further operable to allow the user to change the retrieved data source information.

16. **(Original)** The system of claim 14, wherein the user interface module is further operable to allow the user to select a target cluster from the retrieved cluster information, to which to automatically deploy the one or more program units.

17. **(Previously Presented)** The method of claim 1, wherein the retrieving comprises:

automatically retrieving information related to one or more virtual hosts in the cluster.

18. **(Previously Presented)** The method of claim 17, further comprising:  
dynamically allowing a user to select from the one or more virtual hosts.

19. **(Cancelled)**

20. **(Cancelled)**

21. **(New)** The method of claim 1, further comprising:  
after the automated generation of the deployment descriptors, receiving a user customization of the deployment descriptors; and  
merging the user customization with the automatically generated deployment descriptors to update the automatically generated deployment descriptors according to the user customization.

22. **(New)** The program storage of claim 11, further comprising:  
after the automated generation of the deployment descriptors, receiving a user customization of the deployment descriptors; and  
merging the user customization with the automatically generated deployment descriptors to update the automatically generated deployment descriptors according to the user customization.

**23. (New)** The system of claim 13, wherein the container management module is further operable to:

after the automated generation of the deployment descriptors, receiving a user customization of the deployment descriptors; and

merging the user customization with the automatically generated deployment descriptors to update the automatically generated deployment descriptors according to the user customization.